PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference BU-039AQ999	FOR FURTHER see Notification of ACTION (Form PCT/ISA/s	Transmittal of International Search Report 220) as well as, where applicable, item 5			
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)			
PCT/US02/17866	07 JUNE 2002	NONE			
Applicant TRUSTEES OF BOSTON UNIVER	SITY				
according to Article 18. A copy is bei	en prepared by this International Searching Au ng transmitted to the International Bureau.	thority and is transmitted to the applicant			
This international search report consists of a total of sheets. X It is also accompanied by a copy of each prior art document cited in this report.					
1. Basis of the report					
a. With regard to the language, language in which it was filed the international search was Authority (Rule 23.1(b)).	the international search was carried out on the land, unless otherwise indicated under this item. Is carried out on the basis of a translation of the	e international application furnished to this			
b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:					
contained in the internatio	contained in the international application in written form.				
filed together with the inte	filed together with the international application in computer readable form.				
furnished subsequently to t	furnished subsequently to this Authority in written form.				
furnished subsequently to this Authority in computer readable form.					
the statement that the subs	the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in				
the statement that the inform furnished.	the statement that the information recorded in computer readable form is identical to the written sequence listing has been				
2. Certain claims were found	Certain claims were found unsearchable (See Box 1).				
	Unity of invention is lacking (See Box II).				
4. With regard to the title,					
X the text is approved as sub	the text is approved as submitted by the applicant.				
the text has been established	ed by this Authority to read as follows:				
5. With regard to the abstract,					
the text is approved as sub-	mitted by the applicant.				
Box III. The applicant may,					
6. The figure of the drawings to be p	ublished with the abstract is Figure No. 7				
as suggested by the applica	nt.	None of the Comme			
X because the applicant failed	to suggest a figure.	None of the figures.			
because this figure better cl	naracterizes the invention.				



International application No.

PCT/US02/17866

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

NEW ABSTRACT

The present invention relates to both a system and method for product and document authentication. The system used herein comprises one or more inks, at least one of which is either invisible to the naked eye or is fluorescent or luminescent, an optical (2, 3, 8) scanning component capable of detecting the signals emitted by all of said inks, and an information technology component for analyzing said signals. Given the large number of combinations of dyes, sizes and shapes of the markings made with said dyes, the ability to change the type, size and shape for the marking (5) for a given product, and the ability to keep track of the dyes and markings used for a given product, the system allows a nearly foolproof system for product authentication. The method involves the above system, or other combinations of inks, for authenticating a given product.

Form PCT/ISA/210 (continuation of first sheet(2)) (July 1998)*

INTERNATIONAL SEARCH REPORT

International application No. PCT/US02/17866

A. CLASSIFICATION OF SUBJECT MATTER				
IPC(7) :G06K 19/06 US CL :235/491, 454, 457, 468, 494				
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum documentation searched	(classification system follow	ved by classification symbols)		
U.S. : 285/491, 454, 457, 468		,		
Documentation searched other tha searched	n minimum documentation	to the extent that such documents are	included in the fields	
Electronic data base consulted duri USPTO APS EAST	ng the international search	(name of data base and, where practicabl	e, search terms used)	
C. DOCUMENTS CONSIDER	RED TO BE RELEVANT			
Category* Citation of docume	ent, with indication, where a	appropriate, of the relevant passages	Relevant to claim No.	
column 3, lines 1	US 5,502,304 A (BERSON et al) 26 March 1996 (26.03.1996), column 3, lines 15-65; column 4, lines 16-39; column 5, lines 4-16; column 6, line 38 - column 7, line 23.		1-5,9-18,20,21, 23-26,28,29,33, 40,41,46-48	
			6-8,19,22,27,30- 32,34-39,42-45	
Y US 4,819,658 A 6, line 65 - colum	US 4,819,658 A (KOLODNER) 11 April 1989 (11.04.1989), column 6, line 65 - column 7, line 32.		6,7,19,22,30-32, 37-39	
Y US 4,652,143 (24.03.1987), co	A (WICKERSHEIN blumn 8, lines 41-61.	M et al) 24 March 1987	8,27,34-36	
·				
X Further documents are listed	in the continuation of Box	C. See patent family annex.		
Special categories of cited documents: "T" later document published after the international filing date or priorit date and not in conflict with the application but cited to understan to be of particular relevance "T" later document published after the international filing date or priorit date and not in conflict with the application but cited to understan the principle or theory underlying the invention		cation but cited to understand		
E" earlier document published on or a document which may throw doubt cited to establish the publication	8 OB Priority claim(s) or which is	"X" document of particular relevance; the considered novel or cannot be considered when the document is taken alone "Y" document of naticular relevance; the	d to involve an inventive step	
special reason (as specified) O" document referring to an oral di means		"Y" document of particular relevance; the considered to involve an inventive step w with one or more other such docume obvious to a person skilled in the art	hen the document is combined	
P" document published prior to the i than the priority date claimed		"&" document member of the same patent f	amily	
Date of the actual completion of the 16 OCTOBER 2002	international search	Date of mailing of the international sea	rch report	
Jame and mailing address of the IS. Commissioner of Patents and Tradema	A/US rks	Authorized officer		
Box PCT Washington, D.C. 20231		Kimberly D. Nguyen	0 0	
acsimile No. (703) 305-3230		Telephone No. (703) 305-1798	penseforter	

INTERNATIONAL SEARCH REPORT

International application No. PCT/US02/17866

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	US 4,283,382 A (FRANK et al) 11 August 1981 (11.08.1981), column 1, lines 39-52.	42-45
		,
	REST AVAILA	DIE CODY

Form PCT/ISA/210 (continuation of second sheet) (July 1998)*

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PATENT COOPERATION TREATY

RECEIVED BY:

APR 0 7 2003

From the INTERNATIONAL SEARCHING AUTHORITY

CHARLES L. GAGNEBIN WEINGARTEN, SCHURGIN, GAGNEBIN & LEBOOVICI, LLP TEN POST OFFICE SQUARE BOSTON, MASSACHUSETTS 02109

PCT GAGNEBIN & LEBOVICI LLP

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

(PCT Dute 44.1)

(PC1 Rule 44.1)		
	Date of Mailing (day/month/year) 02 APR 2003	
Applicant's or agent's file reference BU-039AQ999	FOR FURTHER ACTION See paragraphs 1 and 4 below	
International application No. PCT/US02/17866	International filing date (day/month/year)	
Applicant TRUSTEES OF BOSTON UNIVERSITY	07 June 2002 (07.06.2002)	
The applicant is hereby notified that the international search Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claim	•	
When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.		
Where? Directly to the International Bureau of WIPO, 34, chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35		
For more detailed instructions, see the notes on the accompanying sheet.		
2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.		
3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:		
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.		
4. Reminders		
Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90 bis.1 and 90 bis.3, respectively, before the completion of the technical preparations for international publication.		
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.		
In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.		
See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.		
Name and mailing address of the ISA/US	Authorized officer	
Commissioner for Patents Box PCT	Kimberly D. Nguyen	
Washington, D.C. 20231 Facsimile No. (703) 305-3230	Telephone No. (703) 305-1798	
rm PCT/ISA/220 (April 2002)	(S)	

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